

=&gt; d his

(FILE 'HOME' ENTERED AT 15:30:12 ON 13 NOV 2001)  
SET COST OFF

FILE 'REGISTRY' ENTERED AT 15:30:28 ON 13 NOV 2001

E FLUORESCEIN/CN  
L1 1 S E3  
SEL RID  
L2 10236 S E1  
L3 10 S L2 AND AS/ELS  
E .BETA.-ALANINE/CN  
L4 1 S E3  
L5 807 S L2 AND SQL/FA  
L6 800 S L5 AND PROTEIN/FS  
L7 7 S L5 NOT L6  
L8 0 S L2 AND 107-95-9/CRN  
E 1,2-ETHANEDITHIOL/CN  
L9 1 S E3  
E DITHIOTHERITOL/CN  
L10 1 S E4  
E C4H10O2S2/MF  
L11 5 S E3 AND 2 3 BUTANEDIOL  
E DIMERCAPTOPROPANESULFONATE/CN  
E DIMERCAPTO PROPANESULFONATE/CN  
E PROPANESULFONATE/CN

FILE 'HCAPLUS' ENTERED AT 15:36:03 ON 13 NOV 2001

E VALE R/AU  
L12 121 S E3,E4,E7-E11  
E THRON K/AU  
E THORN K/AU  
L13 29 S E3-E5,E11,E12  
E COOKE R/AU  
L14 306 S E3-E20  
E COOKE ROGER/AU  
L15 116 S E3-E6  
E MATUSKA M/AU  
L16 4 S E3,E4  
E NABER N/AU  
L17 21 S E3-E6  
L18 570 S L12-L17  
L19 3815 S L1  
L20 17627 S FLUORESCEIN  
L21 4 S L18 AND L19,L20  
L22 2 S L21 AND ?ARSEN?  
SEL RN

FILE 'REGISTRY' ENTERED AT 15:39:12 ON 13 NOV 2001

34 S E1-E34  
L24 6 S L2 AND L23  
L25 2 S L23 AND AS/ELS  
L26 7 S L24,L25  
L27 27 S L23 NOT L26  
L28 3 S L27 AND (6/SQL OR 17/SQL)  
L29 2 S L28 NOT NCNC2/ES  
L30 6 S L9-L11  
L31 3 S L27 AND (C4H10O2S2 OR C3H8O3S3 OR C2H6S2)  
L32 7 S L30,L31  
L33 4 S L3 AND 2/AS

FILE 'HCAPLUS' ENTERED AT 15:45:28 ON 13 NOV 2001

8 S L33  
L35 2 S L34 AND L18  
L36 2 S L22,L35  
L37 8 S L34-L36

Point of Contact:  
Jan Dabrowski  
Librarian, Physical Sciences  
CM1 1E09 Tel: 308-4498

L38 1 S L37 AND (L4 OR BETA ALANINE)  
L39 2 S L37 AND L32  
L40 2 S L37 AND L29

FILE 'HCAPLUS' ENTERED AT 15:47:56 ON 13 NOV 2001  
S CC..CC/SQSP

L41 FILE 'REGISTRY' ENTERED AT 15:48:03 ON 13 NOV 2001  
837 S CC..CC/SQSP

L42 FILE 'HCAPLUS' ENTERED AT 15:48:10 ON 13 NOV 2001  
500 S L41  
L43 3 S L42 AND L37  
L44 8 S L37-L40,L43  
L45 57 S L19,L20 AND ?ARSEN?

L46 FILE 'REGISTRY' ENTERED AT 15:49:28 ON 13 NOV 2001  
E AS/ELS  
65636 S E3 NOT L3

L47 FILE 'HCAPLUS' ENTERED AT 15:49:52 ON 13 NOV 2001  
53 S L46 AND L19,L20  
L48 76 S L45,L47  
L49 3 S L48 AND L42  
L50 3 S L48 AND L32  
L51 9 S L44,L49,L50  
SEL HIT RN

L52 FILE 'REGISTRY' ENTERED AT 15:52:04 ON 13 NOV 2001  
48 S E1-E48  
L53 5 S L52 AND L1,L2  
L54 1 S L52 AND L4  
L55 3 S L52 AND L32  
L56 39 S L52 NOT L53-L55  
L57 4 S L56 AND L41

=> fil reg

FILE 'REGISTRY' ENTERED AT 15:56:19 ON 13 NOV 2001  
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.  
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.  
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STRUCTURE FILE UPDATES: 12 NOV 2001 HIGHEST RN 369354-32-5  
DICTIONARY FILE UPDATES: 12 NOV 2001 HIGHEST RN 369354-32-5

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when  
conducting SmartSELECT searches.

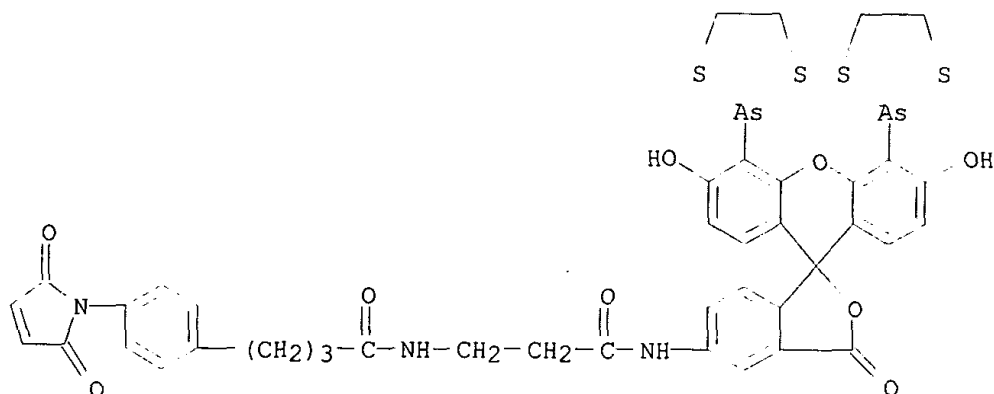
Crossover limits have been increased. See HELP CROSSOVER see  
HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> d 153 ide can tot

L53 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2001 ACS  
RN 311797-39-4 REGISTRY  
CN Benzenebutanamide, N-[3-[[4',5'-bis(1,3,2-dithiarsolan-2-yl)-3',6'-  
dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl]amino]-3-  
oxopropyl]-4-(2,5-dihydro-2,5-dioxo-1H-pyrrol-1-yl)-(9CI) (CA INDEX  
NAME)

MF C41 H35 As2 N3 O9 S4  
 SR CA  
 LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:27295

L53 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2001 ACS

RN 268741-25-9 REGISTRY

CN Propanamide, 3-amino-N-[4',5'-bis(1,3,2-dithiarsolan-2-yl)-3',6'-dihydroxy-3-oxospiro[isobenzofuran-1(3H),9'-[9H]xanthen]-5-yl]- (9CI) (CA INDEX NAME)

OTHER NAMES:

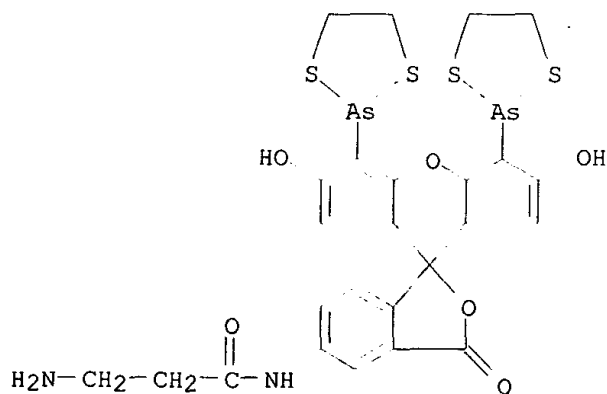
CN 2: PN: W00153325 PAGE: 49 claimed sequence

CN 3: PN: W00153325 PAGE: 49 claimed sequence

MF C27 H24 As2 N2 O6 S4

SR CA

LC STN Files: CA, CAPLUS



2 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

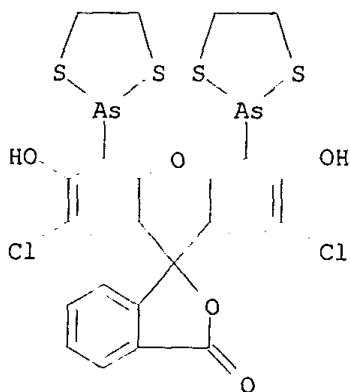
REFERENCE 1: 135:149588

REFERENCE 2: 132:344976

L53 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2001 ACS

RN 223673-83-4 REGISTRY

CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 2',7'-dichloro-4',5'-bis(1,3,2-dithiarsolan-2-yl)-3',6'-dihydroxy- (9CI) (CA INDEX NAME)  
 MF C24 H16 As2 Cl2 O5 S4  
 SR CA  
 LC STN Files: CA, CAPLUS, USPATFULL



1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 130:308804

L53 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2001 ACS

RN 212118-77-9 REGISTRY

CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 4',5'-bis(1,3,2-dithiarsolan-2-yl)-3',6'-dihydroxy- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN FLASH

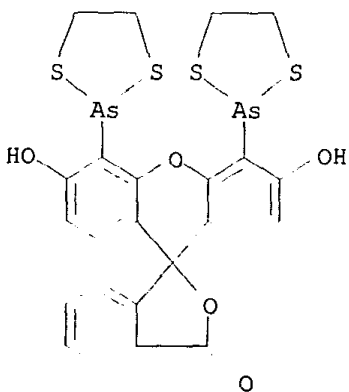
CN FLAsH-EDT2

CN Fluorescein arsenical helix binder

MF C24 H18 As2 O5 S4

SR CA

LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL



5 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 5 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 134:175077

REFERENCE 2: 134:66121

REFERENCE 3: 130:308804

REFERENCE 4: 130:150455

REFERENCE 5: 129:200138

L53 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2001 ACS

RN 2321-07-5 REGISTRY

CN Spiro[isobenzofuran-1(3H),9'-[9H]xanthen]-3-one, 3',6'-dihydroxy- (9CI)  
(CA INDEX NAME)

OTHER CA INDEX NAMES:

CN **Fluorescein (8CI)**

OTHER NAMES:

CN 3',6'-Dihydroxyfluoran

CN 3',6'-Fluorandiol

CN 3,6-Dihydroxyspiro[xanthene-9,3'-phthalide]

CN 9-(o-Carboxyphenyl)-6-hydroxy-3-isoxanthenone

CN Benzoic acid, 2-(6-hydroxy-3-oxo-3H-xanthen-9-yl)-

CN C.I. 45350:1

CN C.I. Solvent Yellow 94

CN D and C Yellow No. 7

CN Fluorescein acid

CN Japan Yellow 201

CN Japan Yellow No. 201

CN Resorcinolphthalein

CN Solvent Yellow 94

CN Yellow fluorescein

AR 518-45-6

FS 3D CONCORD

DR 126605-73-0, 213880-86-5

MF C20 H12 O5

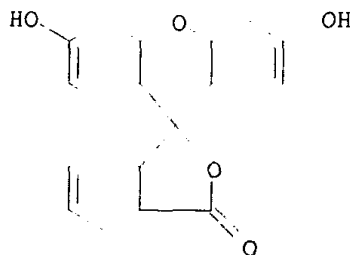
CI COM

LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DDFU, DETHERM\*, DRUGU, EMBASE, GMELIN\*, HODOC\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS\*, TOXLIT, TULSA, USAN, USPATFULL, VTB

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3798 REFERENCES IN FILE CA (1967 TO DATE)

841 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3809 REFERENCES IN FILE CAPLUS (1967 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:312834

REFERENCE 2: 135:310799

REFERENCE 3: 135:302553

REFERENCE 4: 135:300686  
REFERENCE 5: 135:300676  
REFERENCE 6: 135:300593  
REFERENCE 7: 135:300567  
REFERENCE 8: 135:300482  
REFERENCE 9: 135:300290  
REFERENCE 10: 135:299473

=> d l54 ide can

L54 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2001 ACS  
RN 107-95-9 REGISTRY  
CN .beta.-Alanine (6CI, 8CI, 9CI) (CA INDEX NAME)  
OTHER NAMES:  
CN .beta.-Aminopropanoic acid  
CN .beta.-Aminopropionic acid  
CN .omega.-Aminopropionic acid  
CN 2-Carboxyethylamine  
CN 3-Aminopropanoic acid  
CN 3-Aminopropionic acid  
CN Abufene  
CN Propanoic acid, 3-amino-  
FS 3D CONCORD  
DR 87867-95-6  
MF C3 H7 N O2  
CI COM  
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS,  
BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,  
CHEMINFORMRX, CHEMLIST, CIN, CSChem, DDFU, DETHERM\*, DRUGU, EMBASE,  
GMELIN\*, HODOC\*, IFICDB, IFIPAT, IFIUDb, IPA, MEDLINE, MRCK\*, MSDS-OHS,  
NAPRALERT, NIOSHTIC, PROMT, SPECINFO, SYNTHLINE, TOXLIT, USPATFULL  
(\*File contains numerically searchable property data)  
Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)

$\text{H}_2\text{N}-\text{CH}_2-\text{CH}_2-\text{CO}_2\text{H}$

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

4873 REFERENCES IN FILE CA (1967 TO DATE)  
392 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
4879 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
5 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:303277  
REFERENCE 2: 135:289030  
REFERENCE 3: 135:288559  
REFERENCE 4: 135:288105  
REFERENCE 5: 135:284379  
REFERENCE 6: 135:282370

REFERENCE 7: 135:277460  
 REFERENCE 8: 135:273221  
 REFERENCE 9: 135:273175  
 REFERENCE 10: 135:269042

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L55 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2001 ACS

RN 3483-12-3 REGISTRY

CN 2,3-Butanediol, 1,4-dimercapto-, (2R,3R)-rel- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2,3-Butanediol, 1,4-dimercapto-, (R\*,R\*)-

CN Threitol, 1,4-dithio- (7CI, 8CI)

OTHER NAMES:

CN (.+-.)-1,4-Dimercapto-2,3-butanediol

CN (.+-.)-Dithiothreitol

CN 1,4-Dithio-DL-threitol

CN 1,4-Dithiothreitol

CN Cleland's reagent

CN Dithiothreitol

CN DL-1,4-Dimercapto-2,3-dihydroxybutane

CN DL-1,4-Dithiothreitol

CN DL-Dithiothreitol

CN DTT

CN DTT (threitol derivative)

CN rac-Dithiothreitol

CN Reagents, Cleland's

CN Sputolysin

CN threo-1,4-Dimercapto-2,3-butanediol

CN threo-2,3-Dihydroxy-1,4-butanedithiol

CN WR 34678

FS STEREOSEARCH

DR 27565-41-9, 28823-08-7, 214119-27-4

MF C4 H10 O2 S2

CI COM

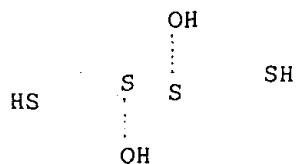
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(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

Relative stereochemistry.



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3944 REFERENCES IN FILE CA (1967 TO DATE)

61 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

3951 REFERENCES IN FILE CAPLUS (1967 TO DATE)

## 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:300667  
REFERENCE 2: 135:296102  
REFERENCE 3: 135:288428  
REFERENCE 4: 135:287802  
REFERENCE 5: 135:285360  
REFERENCE 6: 135:284923  
REFERENCE 7: 135:284891  
REFERENCE 8: 135:284831  
REFERENCE 9: 135:282976  
REFERENCE 10: 135:280378

L55 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2001 ACS

RN 540-63-6 REGISTRY

CN 1,2-Ethanedithiol (6CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1,2-Dimercaptoethane

CN 1,2-Ethylenedithiol

CN 2-Mercaptoethanethiol

CN a-Ethylene dimercaptan

CN Dithioethylene glycol

CN Dithioglycol

CN Ethylene dimercaptan

CN Ethylene dithioglycol

CN Ethylene glycol, dithio-

CN Ethylenedithiol

CN s-Ethylene dimercaptan

FS 3D CONCORD

MF C2 H6 S2

CI COM

LC STN Files: ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSChem, DETHERM\*, DIPPR\*, EMBASE, GMELIN\*, HODOC\*, HSDB\*, IFICDB, IFIPAT, IFIUDb, MEDLINE, MRCK\*, MSDS-OHS, RTECS\*, SPECINFO, SYNTHLINE, TOXLIT, TRCTHERMO\*, USPATFULL

(\*File contains numerically searchable property data)

Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*

(\*\*Enter CHEMLIST File for up-to-date regulatory information)

HS-CH<sub>2</sub>-CH<sub>2</sub>-SH

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1713 REFERENCES IN FILE CA (1967 TO DATE)

49 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

1714 REFERENCES IN FILE CAPLUS (1967 TO DATE)

34 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:303597  
REFERENCE 2: 135:289812  
REFERENCE 3: 135:288323

REFERENCE 4: 135:257352  
 REFERENCE 5: 135:257222  
 REFERENCE 6: 135:257182  
 REFERENCE 7: 135:256819  
 REFERENCE 8: 135:211083  
 REFERENCE 9: 135:210601  
 REFERENCE 10: 135:195379

L55 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2001 ACS

RN 74-61-3 REGISTRY

CN 1-Propanesulfonic acid, 2,3-dimercapto- (7CI, 8CI, 9CI) (CA INDEX NAME)

OTHER NAMES:

CN (.+-.)-2,3-Dimercapto-1-propanesulfonic acid

CN 2,3-Dimercapto-1-propanesulfonic acid

CN 2,3-Dimercaptopropanesulfonic acid

CN DL-2,3-Dimercaptopropane-1-sulfonic acid

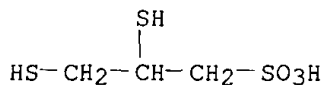
FS 3D CONCORD

DR 88031-93-0

MF C3 H8 O3 S3

CI COM

LC STN Files: ANABSTR, BEILSTEIN\*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA,  
 CAOLD, CAPLUS, CASREACT, CHEMINFORMRX, CSCHEM, CSNB, DDFU, DRUGU,  
 EMBASE, IPA, MRCK\*, NIOSHTIC, RTECS\*, TOXLIT, USPATFULL  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

223 REFERENCES IN FILE CA (1967 TO DATE)

38 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

223 REFERENCES IN FILE CAPLUS (1967 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 135:172207  
 REFERENCE 2: 135:162413  
 REFERENCE 3: 135:149588  
 REFERENCE 4: 135:42007  
 REFERENCE 5: 135:30115  
 REFERENCE 6: 134:306290  
 REFERENCE 7: 134:51018  
 REFERENCE 8: 133:130988  
 REFERENCE 9: 133:85389  
 REFERENCE 10: 132:32023

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L57 ANSWER 1 OF 4 REGISTRY COPYRIGHT 2001 ACS  
 RN 352206-69-0 REGISTRY  
 CN Peptide, (Cys-Cys-Xaa-Xaa-Cys-Cys) (9CI) (CA INDEX NAME)  
 FS PROTEIN SEQUENCE  
 SQL 6  
 NTE

type	location			description
uncommon	Aaa-3	-	-	
uncommon	Aaa-4	-	-	

SEQ 1 CCXXCC  
 =====

HITS AT: 1-6  
 MF Unspecified  
 CI MAN  
 SR CA  
 LC STN Files: CA, CAPLUS

1 REFERENCES IN FILE CA (1967 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:149588

L57 ANSWER 2 OF 4 REGISTRY COPYRIGHT 2001 ACS  
 RN 268741-28-2 REGISTRY  
 CN L-Alanine, L-tryptophyl-L-.alpha.-glutamyl-L-alanyl-L-alanyl-L-alanyl-L-arginyl-L-.alpha.-glutamyl-L-alanyl-L-cysteinyl-L-cysteinyl-L-arginyl-L-.alpha.-glutamyl-L-cysteinyl-L-cysteinyl-L-alanyl-L-arginyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

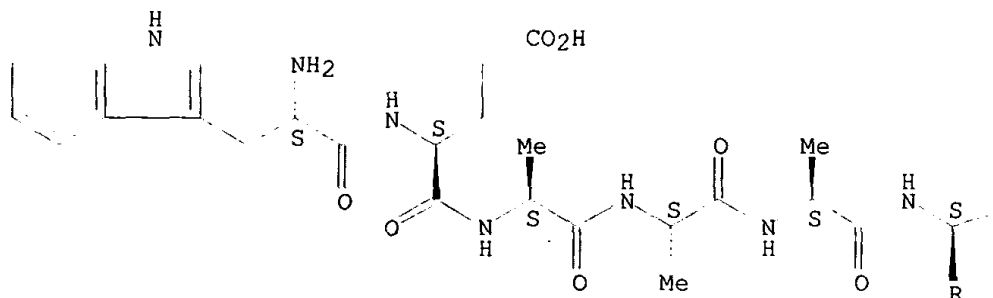
CN 46: PN: WO0114578 PAGE: 38 unclaimed sequence  
 CN 4: PN: WO0047220 SEQID: 48 unclaimed sequence  
 CN 9: PN: WO0153325 PAGE: 32 claimed sequence  
 FS PROTEIN SEQUENCE; STEREOSEARCH  
 SQL 17

SEQ 1 WEAAAREACC RECCARA  
 == ==

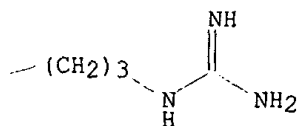
HITS AT: 9-14  
 MF C74 H119 N27 O24 S4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

Absolute stereochemistry.

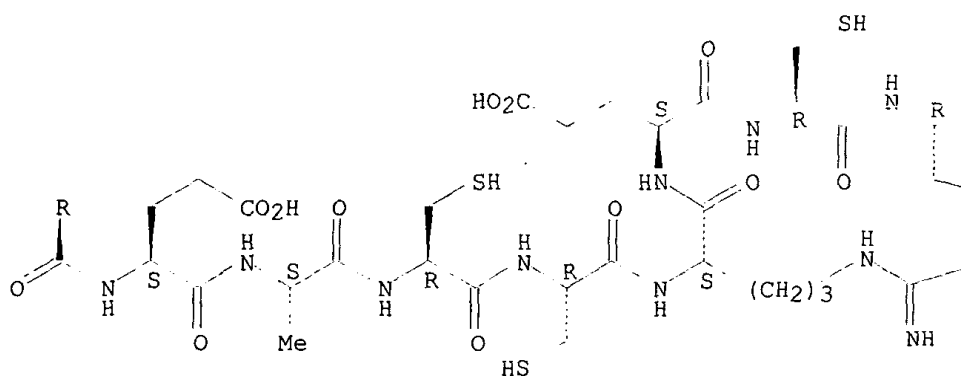
PAGE 1-A



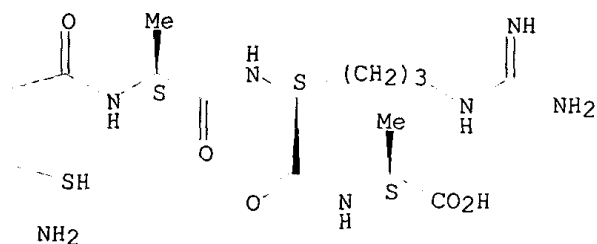
PAGE 1-B



PAGE 2-A



PAGE 2-B



4 REFERENCES IN FILE CA (1967 TO DATE)  
4 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 135:149588

REFERENCE 2: 134:204756

REFERENCE 3: 133:172215

REFERENCE 4: 132:344976

L57 ANSWER 3 OF 4 REGISTRY COPYRIGHT 2001 ACS

RN 223673-79-8 REGISTRY

CN L-Alanine, L-alanyl-L-.alpha.-glutamyl-L-alanyl-L-alanyl-L-  
arginyl-L-.alpha.-glutamyl-L-alanyl-L-cysteinyl-L-cysteinyl-L-arginyl-L-  
.alpha.-glutamyl-L-cysteinyl-L-cysteinyl-L-alanyl-L-arginyl- (9CI) (CA  
INDEX NAME)

OTHER NAMES: